



ISE Newsletter

Quarterly newsletter of the INDIAN SOCIETY OF ERGONOMICS (ISE)

Vol. 15

July – September 2011

No. 3

Editorial Board Members

A. K. Ganguli	Trichy	akg (at) bheltry.co.in
Debkumar Chakraborti	Guwahati	dc (at) iitg.ernet.in
Prakash Chandra Dhara	Midnapur, WB	prakashdhara (at) rediffmail.com
R Iqbal	Mumbai	rauf_iq (at) yahoo.com
Dhurjati Majumdar	Delhi	majum55 (at) yahoo.com
Chandan Kumar Pradhan	Kolkata	ckpradhan.ise (at) gmail.com
Debasis Sen	Kolkata	devashishsen_12 (at) yahoo.co.in

CONTENTS:

* [Welcome New Members](#)

* [HWWE Update](#)

* [IEA News](#)

* [Member activities](#)

- Organisational Design and Management (ODAM)
- Healthcare Systems Ergonomics and Patient Safety (HEPS)
- One-day symposium on Occupational Health
- One-day workshop on "Ergonomics in BPOs"
- 3-day Workshop on "Ergonomics and Design for Human Use"

* [Forthcoming conferences](#)

* [Knowledge Base](#)

- Cost-Benefit and ROIs from Ergonomics
- AAMI and HFES Website of Medical Device Ergonomics
- Safety and Health at Work (SH@W)

Forthcoming National events:

- [HWWE 2011, December 15-17, 2011, Chennai, India](#)
- [PHYSICON2011, Dec 21-23, 2011, Chinnakakani, AP](#)
- [RECOUP workshops on ergonomic workplace analysis & healthcare ergonomics, Jan 19-21, 22, 2012 Bangalore](#)

Forthcoming International events:

- [ERGOSYM 2011, December 5-6, 2011, Perlis, Malaysia](#)
- [IEA 2012, February 12-16, 2012, Recife, Brazil](#)
- [SEANES 2012, July 9-12, 2012, Langkawi, Malaysia](#)

ISE is online at : <http://ise.org.in/>

* **Welcome New members!**

ISE Newsletter welcomes the following new Life Members:

L371 N. Jayamani, Bangalore



L372 Maxin G. Joseph, Bangalore

L373 Diksha Srivastava, Ghaziabad

L374 Sanjeev Kumar, Bangalore

* **Update – HWWE**

All the registered participants and people who had submitted abstracts have been sent up-dates.

The Organising committee is working on submitted abstracts and the acceptances are being sent expeditiously.

Pre-conference workshop on hands-on testing will be held on 13 and 14 December 2011

See [below](#) for details.

* **IEA News**

The IEA President's Newsletter No. 11 from Andrew S. Imada highlights some of the recent activities and accomplishments from around the world. The newsletter is available on the IEA website <http://www.iea.cc/>.

Important reminders:

1. At least one of the authors must be registered for the IEA-2012 Congress by October 31, to guarantee publication of the paper.
2. Any responses or suggestions for the proposed changes to the IEA Rules need to be sent in by December 31, 2011 (through President, ISE).
- 3 **IEA will support delegates from IDCs to attend the IEA 2012 Congress. To apply for the grant, please contact President or General Secretary, ISE.**

* **Member Activities**

Organisational Design and Management (ODAM)



Seven research papers were presented from RECOUP (Bangalore), in a 2 Hour Symposium on "On-site Prevention and Treatment Programme for Work Related Musculoskeletal Disorders in Information Technology Companies" (Chairperson: Dr. Deepak Sharan) at the 10th International Symposium of Human Factors in Organisational Design and Management (ODAM), April 4-6, 2011 at Grahamstown, South Africa.

Healthcare Systems Ergonomics and Patient Safety (HEPS)

At the Healthcare Systems Ergonomics and Patient Safety (HEPS), June 22-24, 2011 at Oviedo, Spain, a research paper was presented from RECOUP (Bangalore) by Dr. Deepak Sharan, who also chaired the Symposium on "Injury Prevention in Physiotherapists"

One Day Symposium on Occupational Health

The Department of Physiology, University of Calcutta organized the "One Day Symposium on Occupational Health" on July 9, 2011 as a part of the Centenary celebration of the Department. The theme of the symposium was "**Ergonomics in Occupational Health**". More than 120 participants from different academic institutions and industries participated.

The symposium was inaugurated by the Registrar of the University, Prof. Basab Chaudhuri. The Chairperson of the event Prof. T. K. Ghosh highlighted the significance of the programme. Prof. A.M. Chandra presented a report on the last conference "HWWE 2009" held in December 2009. The Organizing Secretary Dr. Somnath Gangopadhyay welcomed the delegates. In the inaugural session, the second volume of the book "Ergonomics for Everyone" was released by the Registrar.



Prof. Basab Chaudhuri (L) releasing the second volume of the book "Ergonomics for Everyone"



Prof. S.R. Dutta delivers the 3rd Prof. Sachchidananda Bandyopadhyay Memorial Oration



Prof. V.K. Tewari (L) being felicitated after delivering the 6th Prof. Haripada Chattopadhyay Memorial Oration

The 3rd Prof. Sachchidananda Bandyopadhyay Memorial Oration entitled "Role of Work Physiology in Industry" was delivered by Prof. S.R. Dutta, Ex-Scientist of All India Institute of Hygiene and Public Health. The 6th Prof. Haripada Chattopadhyay Memorial Oration was delivered by Prof. V.K. Tewari of Department of Agricultural and Food Engineering, Indian Institute of Technology, Kharagpur. His topic was "Ergonomics and Safety in Modern Industrialization".



Prof. P. C. Dhara



Prof. N.C. Dey



Dr. K. B. Saha

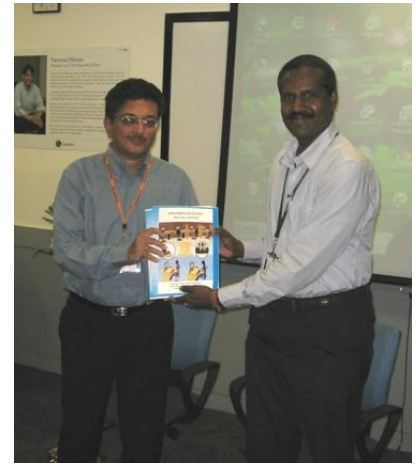
Theme lectures were delivered by Prof. P. C. Dhara of Vidyasagar University ("Evaluation of Occupational Health hazards of the workers engaged in agriculture and small industries and their awareness level about occupational health", Prof. N.C. Dey of Department of Mining Engineering, Bengal Engineering and Science University ("Coal miners health responses during their stretch of work in underground inimical environment"), and Dr. K. B. Saha, Additional Chief Medical Director, Indian Railways Medical Service ("OHS in India").

One-day workshop on "Ergonomics in BPOs"

A one-day workshop on "Ergonomics in BPOs" was jointly organized by NASSCOM, The Department of Science & Technology, Government of India, and Cognizant Technology Solutions India Pvt. Ltd., at Chennai on 10th August. This is part of the project titled "Occupational Health Hazards of women workers employed in Call centres" is funded by DST (RVSP Division), New Delhi and in operation by the Department of Family Resource Management, Home Science College and Research Institute, Tamil Nadu Agricultural University (TNAU), Madurai.

The workshop was attended by 23 representatives from various major IT organizations in Chennai, including New Age Software Solutions, Akmin Technologies, Heymath, USI Global, Reliance BPO, Cognizant Technology Solutions, ASE Structure Design, Ajuba Solutions, Sutherland Global Services, Mind Tree Limited, and HCL Technologies.

During the first phase of the project, women associates working in various call centres have been interviewed and based on their responses feedback, a draft "Ergonomic Checkpoints" for call centre operations has been prepared. This was released by Mr. Premkumar Pandurangam, Director (Quality), Go Green Head, and EHS Leader and Architect, Cognizant Technologies Solutions and Dr. A. K. Ganguli, Sr. Dy. General Manager, Occupational Health Service, BHEL, Trichy.



Dr.A.K.Ganguli gave an overview of Ergonomics, and spoke in detail about musculoskeletal disorders. Dr.P. Parimalam, Assoc. Prof and Head (Family Resource Management), TNAU, introduced the Ergonomic Checkpoints. Dr. M.R. Premalatha, Prof and Head (Food Science and Nutrition), TNAU, spoke on "Food for health". There were participatory sessions on relaxation exercises by Dr. R. Karthik, Physiotherapist, Madurai, and on nutritional games by Dr. G. G. Kavithashree, Senior Research Fellow, TNAU.

Workshop on “Ergonomics and Design for Human Use”

A three day workshop on ‘Ergonomics and Design for Human Use’ was organized by the National Institute of Design from 21-23 September 2011 at its Paldi, Ahmedabad Campus. The anchor faculty was Dr. Subir Das, Senior Faculty (Ergonomics). The other faculty members were Prof. Anil Sinha and Prof. Shashank Mehta. Dr. P. K. Nag, Director, NIOH, Ahmedabad delivered an invited lecture on occupational health and safety.

There were 20 participants from different industries, such as Mahindra & Mahindra Limited (Mumbai and Chennai), ITC Limited (Chennai) and TI Cycles (Chennai), and fields, such as occupational therapists, medical personnel, practicing designers and design students from different institutes. The focus of the workshop was to sensitize the participants to the ergonomics and its application in designing user-friendly products, tasks and work environments.



Areas covered were principles of ergonomics; anthropometry, percentile values and its application; cognitive ergonomics and interface design; ergonomics of space; occupational health and safety; elements of design; and methodologies in ergonomics. Several client projects on ergonomics, carried out by NID faculty members, were shown as case studies. To get hands-on experience, participants formed groups and carried out small assignments like ergonomics audit of hand-held products, work spaces, control panels and other interfaces like visuals, labels, etc.

*** Forthcoming conferences**



Asia Pacific Symposium on Advancements in Ergonomics and Safety (ERGOSYM2011)

Perlis, Malaysia, December 5-6, 2011

The symposium will highlight current and present practices of the ergonomics and safety in various fields. The programme will include keynote addresses by distinguished scholars, plenary session and paper presentations on current practices of ergonomics and safety. Participants will have the opportunity to exchange ideas, to share experiences and to address key issues related to ergonomics and safety.

Updates: List of accepted abstracts, Accommodation details, and fees for Non-Presenters now available on the Symposium web-site <http://publicweb2.unimap.edu.my/~ergosym2011/>.

Caontact: MOHD ASYRAF BIN CHE DOI

Deputy Director, Center for Industrial Collaboration, **Universiti Malaysia Perlis**

No 22 & 24, Kompleks Pentadbiran UniMAP Taman Kechor, Taman Kechor Indah Fasa 2, Jalan Tok Abi Hashim, 01000 Kangar, Perlis, MALAYSIA

Tel: +604 - 979 8873 / 979 8877

Fax: +604 - 979 8885

Mobile: +6019 - 609 4098



8th meeting of ISE and HWWE 2011

International Conference on Ergonomics and Human Factors

Innovation and Usability in Product Development

Chennai, India, December 15-17, 2011

The conference is organized by the International Ergonomics Association (IEA) and Indian Society of Ergonomics (ISE) in collaboration with the Indian Institute of Technology Madras, Chennai, India.

Updates

All the registered participants and people who had submitted abstracts have been sent up-dates.

The abstracts are in the last stage of scrutiny, and shortly (tentatively by the second week of October 2011) the formal letter of acceptance, manuscript template, etc., would reach the authors.

Pre-conference workshop on hands-on testing will be held on 13 and 14 December 2011

For further details please contact

Venkatesh Balasubramanian,
Department of Engineering Design
IIT Madras,
Chennai - 600 036, INDIA

Email: hwwe2011@gmail.com

Phone: (+91 44) 2257-5618

Fax: (+91 44) 2257-4732

<http://www.ed.iitm.ac.in/~hwwe/>

<http://www.hwwe2011.org/>



23rd National Annual Conference of Physiological Society of India (PHYSICON2011)

Chinnakakani, Guntur Dt., AP, December 21-23, 2011

PHYSICON2011 is being hosted by Department of Physiology, NRI Medical College and General Hospital.

Theme: *Man and Modern Day Stresses.*

(1) All submitted abstracts, except Plenary / Invited Lectures and Orations, will be included in a contest of 20 prizes which will be awarded with Certificate and cash prize equivalent to Registration Fee.

(2) Each poster session will be evaluated for two awards.

Final Announcement and Registration form are available on the conference website <http://sites.google.com/site/physicon2011>. Send request for accommodation (mention type) along with advance (by DD). Limited free accommodation is available for students on first come first served basis.

For further information, regarding PHYSICON2011, please email physicon2011@gmail.com or contact Dr. P. Nayak, the Organizing Secretary at +91 9963040449



5th RECOUP workshop on ERGONOMIC WORKPLACE ANALYSIS

Bangalore, January 19-21, 2012

Topics Covered:

- Methods to assess musculoskeletal discomfort among workers: NIOSH discomfort surveys, the Dutch Musculoskeletal Questionnaire (DMQ), University of Michigan Upper Extremity Questionnaire (UMUEQ), Cornell Musculoskeletal Discomfort Survey, Nordic Musculoskeletal Questionnaire (NMQ) etc.
- Postural and Psychosocial Risk Assessment Questionnaires
- Postural evaluation tools: PLIBEL, Quick Exposure Checklist (QEC), OWAS
- Postural evaluation tools: Rapid Upper Limb Assessment (RULA), Rapid Entire Body Assessment (REBA),
- Simple Model for Comprehensive Evaluation of Risks of Musculoskeletal Disorders (MODSI), Strain Index
- Measurement of work effort and fatigue: Borg Ratings of Perceived Exertion Scale, Muscle Fatigue Assessment Method, Hand Activity Level (HAL),
- Methods for assessing back injury risks: Revised NIOSH Lifting Equation, Snook tables,
- The Occupational Repetitive Action (OCRA) Methods: OCRA Index and OCRA Checklist

WORKSHOP ON HEALTHCARE ERGONOMICS

Bangalore, January 22, 2012

Topics:

- Prevention of Ergonomic hazards in Physicians, Dentists, Nurses, Nursing Assistants, Physiotherapists, Massage Therapists, etc.
- Ergonomics workplace analysis to assess the risk in healthcare professionals

Venue (for both workshops):

RECOUP Auditorium, #312, Further Extension of Anjanapura Layout, Bangalore - 560 062, India.

Fees:

EWA Workshop: Professionals: Rs. 6000/-, Students: Rs. 5000/-

Healthcare Ergonomics Workshop: Professionals: Rs. 1000/-, Students: Rs. 750/-

Fee includes Manual, Lunch, Beverages, Course Transcript and Certificate. Students must enclose a supporting certificate from the Head of Institution.

Contact:

Ms Jeena Jose, Manager Training, Phone: +91-80-64504224/32423424; Mobile: +91-9916264032;
Email: academics@recoup.in; Website: www.recoup.in



18th IEA 2012 - World Congress on Ergonomics

Recife, Brazil, February 12-16, 2012

The congress is organized on behalf of the International Ergonomics Association by the Congress Organizing Committee in collaboration with the Brazilian Ergonomics Association (ABERGO) and the Union of Latin-American Ergonomics Society (ULAERGO). IEA 2012 will be held for the first time in Latin America: in Recife, Brazil, February 12-16, the week before Carnival. The homepage address is www.iea2012.org

The Second SEANES International Conference, SEANES 2012 will be organized by the newly formed Human Factors & Ergonomics Society Malaysia, on 9-12 July 2012, on the beautiful island of Langkawi, Malaysia. SEANES 2012 will be organized by the Human Factors and Ergonomics Society Malaysia, and endorsed by the International Ergonomics Association. Mission: To steer and leverage the science and application of ergonomics, human factors and human-computer interaction, towards a safer, productive and sustainable future.

Abstracts should be of 800 words, and will be peer reviewed by an international scientific committee of ergonomics, human factors and HCI professionals. Details at <http://www.seanes.net/seanes2012>

Deadlines & Important Dates Early Bird Registration & Accommodation discounts 1 April, 2012

Abstract Submission 1 December, 2011 Full Paper due 1 March, 2012

Acceptance notification 15 January, 2012 Author registration deadline 1 May, 2012

General Chair: Dr. Halimahtun M. Khalid, President, South East Asian Network of Ergonomics Societies (SEANES), President, Human Factors & Ergonomics Society Malaysia (HFEM)

Conference Secretariat: Human Factors & Ergonomics Society Malaysia (HFEM)

Phone: +603 2282 9005 /9006

Fax: +603 2282 9004

Email: info@seanes.net

Click [here](#) to download the conference brochure (pdf, 158 kb)

*** Knowledge Base**

Cost-Benefit and ROIs from Ergonomics

Organizations frequently cite the perceived cost of ergonomics programs and solutions as a barrier to implementation. While the benefits of ergonomics are fairly easy to quantify following implementation, they can be difficult to estimate when attempting to justify an investment in an ergonomics intervention. This is one of the reasons that the cost side of the equation tends to dominate the discussion of ergonomics.

To help practitioners better quantify the benefits of ergonomics, Rick Goggins, a Labor and Industries ergonomist and PSHFES Council Member, has developed a cost-benefit calculator that is available for free download from the PSHFES web site <http://www.pshfes.org/cba.htm>. The calculator allows you to compare three intervention options, and provides estimates of benefits and payback periods. The calculator is based on a review of 250 case studies in which organizations reported the outcomes of ergonomics programs and individual solutions.

AAMI and HFES Website of Medical Device Ergonomics

The Association for the Advancement of Medical Instrumentation (AAMI) has teamed up with the Human Factors and Ergonomics Society (HFES) to create an online portal for human factors professionals. The portal, <http://www.medicaldevicehumanfactors.org/>, describes itself as "a useful resource for guiding your efforts towards developing a new or revised medical device with human factors and ergonomics principles in mind." The site provides links to a large number of resources.

Contributor: Avinash Konkani

Safety and Health at Work (SH@W)

Safety and Health at Work (SH@W) is an international, open access, peer-reviewed, interdisciplinary journal published quarterly in English. SH@W provides articles on ergonomics, occupational epidemiology, hygiene, toxicology, work safety, work organization, safety engineering, safety management, etc.

To know more, and to see the latest issue, visit <http://www.e-shaw.org/>

Contributor: K.N.Sen